

# Diesel Generator Set: MPLS900-1

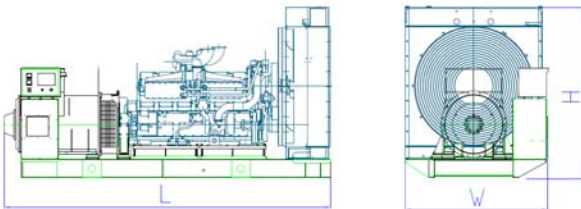
## General Features

- Every generator set is subjected to a comprehensive test program which includes 50% load, 75% load, 100% load, 110% load and the checking and proving of all control and safety shut-down functions.
- Equipped with battery charger and 24V high performance maintenance-free lead-acid starting batteries and connecting with cables.
- Equipped with industrial silencer and flexible exhaust hose.
- Equipped with CHINT air circuit breaker;
- Designed to Comply with ISO8528/GB2820;
- Powered by Perkins engine and coupled with Leroy Somer alternator.



## Benefits

- Function stability credibility, service convenience;
- Low operating cost results in optional economy;
- Gets the job done wherever you are;
- Ease of installation, operation and maintenance.



## Dimension and Weight

● Length(L)	mm	4800
● Width(W)	mm	2050
● Height(H)	mm	2450
● Weight	kg	7100
● Tank capacity	L	N/A

## Environment Condition

● Environment temperature	°C	≤50
● Relative humidity	%	≤90
● Altitude	m	≤1000

## Genset Technical Data

Prime power	900 kVA
Standby power	990 kVA
Rated speed	1500 RPM
Output frequency	50 Hz
Phase	3
Rated voltage	400 V
Engine model	4008TAG1A
Alternator model	LSA 49.1L10
Fuel consumption of 100% load	195 Litres/h
Fuel consumption of 75% load	143 Litres/h
Voltage regulation rate	≤ ±1%
Random voltage variation	≤ ±1%
Frequency regulation rate	≤ ±5%
Random frequency variation	≤ ±0.5%

### Prime Power:

This rating is for the supply of continuous electrical power (at variable load). There is no limit on the annual hours of operation and 10% overload power can be supplied for 1 hour in 12.

### Standby power:

This rating is for the supply of continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted.

### Rated voltage:

Available with customer requirements.

## Engine Specifications

Engine model	4008TAG1A
Engine manufacturer	Perkins
Emissions statement	---
Number of cylinders	8
Cylinder arrangement	Vertical in-line
Cycle	Four stroke
Aspiration	Turbocharged, air to air charge cooled
Bore×Stroke (mm×mm)	160 x 190
Displacement (Liter)	30.56
Compression Ratio	13.6:1
Prime power/speed (kW/RPM)	767/1500
Standby power/speed (kW/RPM)	844/1500
Speed governor	Electrical
Cooling system	Forced Water Cooling Cycle
Total lubrication system capacity (L)	165.6
Coolant capacity (L)	162
Fuel consumption at 100% load (L/Hr)	195 (at 1500RPM)
Starter motor	DC24V
Alternator	AC24V

## Alternator Specifications

Alternator model	LSA 49.1L10
Alternator manufacturer	Leroy Somer
Exciter type	Single bearing, Brushless, PMG
Rated output continuous power	910 kVA
Rated speed	1500 RPM
Rated frequency	50 Hz
Phase	3
Rated voltage	400 V(Available with customer requirements)
Power factor	0.8
Voltage adjust range	≥5%
Voltage regulation NL-FL	≤±1%
Insulation grade	H
Protection grade	IP23

Remark

Alternator option:

Other alternator manufacturer: Stamford, Lisite, Marathon and Mecc Alte.

## Control System DSE3110

All MPMC series genset have a control cubicle (the deepsea controller DSE3110 as standard) mounted on a isolated support, which has the following features:

- Electronic digital control module with monitoring/control facility and warning indicators;
- Automatic shutdown protection
- Emergency stop button (lock-down type)
- AC output circuit breaker with over-current protection;
- DC circuit control switch.

### *The control module gives digital readouts of:*

- Generator voltage;
- Output frequency;
- Engine speed;
- Battery voltage;
- Engine hours run.



DSE3110

Note:

1. The engine coolant temperature used temperature meter display;
2. The engine oil pressure used oil pressure meter display;
3. Generator current used current meter display and used change switch for each phase displayed separately

### *The control module has indicators for failure information:*

- Overspeed/underspeed,
- Emergency stop
- Low oil pressure;
- High water temperature
- Failure to start
- Battery charger failure

### *Automatic shutdown occurs under:*

- Low engine oil pressure;
- High engine water temperature;
- Overspeed/underspeed;
- Failure to start after three attempts.

### *The controller option:*



MP170-HC



HGM6120



DSE7110



DSE7120



DSE7510

Remark: the controller detail information please refer to the file “Control System Choice”

## Generator Set Options and Accessories

### Generator set

- Silence generator set
- Trailer generator set
- ABB air circuit breaker

### Fuel system

- Outside fuel tank

### Exhaust system

- Residential exhaust silencer

### Alternator

- Space heater

### Low environment temperature

- Water heater
- Oil heater
- Battery heater

### Control system

- AMF function
- ATS control cabinet
- Multiple generator automatic synchronising

## Contact Us

### Millennium Power Manufacturing Corp.

No.111 Luda Rd. Luyuan Industrial Zone Pudong Shanghai 201322 China

Tel: +86 21 60970158 Fax: +86 21 60970155

Mobile: +86 13601728699(Mr.Du);

Email: [sales@mpmc-china.com](mailto:sales@mpmc-china.com)

[www.mpmc-china.com](http://www.mpmc-china.com)

MPMC reserves the right to implement specifications or design changes without notice.

**WARNING:** Do not connect generator to any building's electrical system unless a disconnect switch has been installed.

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